	Application No.	Applicant(s)
Notice of Allowability	10/663,422	SUMIHIRO, HIROSHI
	Examiner	Art Unit
	Ryan M. Stiglic	2112
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communication is sufficient to the communication of the communication is sufficient to the communication of the	this application. If not included nication will be mailed in due course. THIS
1. This communication is responsive to <u>amendments filed Ma</u>	rch 13, 2006.	
2. The allowed claim(s) is/are 1-3 and 6-10.		
 Acknowledgment is made of a claim for foreign priority unappriority and all bloometal bloomet	been received. been received in Application	No
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give		
5. X CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or i	n the Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	• • • •	•
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I 		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 Motice of Info	ermal Patant Application (PTO 152)
2. Notice of Caftperson's Patent Drawing Review (PTO-948)	6. Interview Sur	ormal Patent Application (PTO-152)
	Paper No./M	Mail Date
 Information Disclosure Statements (PTO-1449 or PTO/SB/0) Paper No./Mail Date 	8), 7. LJ Examiner's A	mendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	_	Statement of Reasons for Allowance
	9.	

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DETAILED ACTION

1. Claims 1-3 and 6-10 are pending and have been examined.

2. Claims 1-3 and 6-10 are allowed.

Drawings

3. New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because applicant has provided an annotated copy of figure 5 but has failed to include a clean Replacement Sheet including figure 5. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

Response to Arguments

4. Applicant's arguments, see pages 10-11, filed March 13, 2006, with respect to the rejection of claims 1 and 3 under 35 U.S.C. §102 have been fully considered and are persuasive. The rejection of claims 1 and 3 have been withdrawn.

Allowable Subject Matter

5. The following is an examiner's statement of reasons for allowance:

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In regards to the previous rejection of claims 1-3 under 35 U.S.C. §102(e) as being anticipated by Kurth the Examiner has found applicant's arguments persuasive. Applicant argues, "Kurth does not disclose or suggest measuring a time interval from when the request is received by the arbiter" and "...does not disclose or suggest comparing the measured time interval to each of a first predetermined value and a second predetermined value (page 10)" to which the Examiner agrees. Kurth discloses a single timer, within a master agent, that determines if a request has been granted within a predetermined time period (col. 5, Il. 17-27). The timer however fails to compare the current value with a second predetermined value and thus does not increase priority based on a comparison of the second predetermined value. Insofar as Kurth fails to teach each and every limitation of independent claims 1 and 3, the rejection of claims 1 and 3 have been withdrawn. Claims 2 and 6-10 depend from independent claims 1 and 3 and are therefore allowable for the reasons listed above.

In regards to the previous rejection of claims 1-3 under 35 U.S.C. §102(b) as being anticipated by Nunziata the Examiner has found applicant's arguments persuasive. Applicant argues Nunziata, "... does not disclose or suggest assigning a higher priority of bus acquisition based on a result of the comparing (page 11)" to which the Examiner agrees. Nunziata discloses two counters (Fig. 2, 26 and 28) used to determine the priority of a requesting bus master. Timer 26 measures an interval from the issuance of a request from a first bus master. Upon expiration of timer 26 (i.e. comparing the value of the timer 26 to its maximum value) causes the bus master to have a higher priority. However, unlike applicant's invention which compares the interval to a second predetermined value to establish an even higher priority, Nunziata starts a second timer

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28 to effectively compare the interval to a second predetermined value to de-assert the previously establish high priority. Insofar as Nunziata does not assign a higher priority after the expiration of timer 28 claims 1 and 3 are allowable over the Nunziata reference. Claims 2 and 6-10 depend from independent claims 1 and 3 and are therefore allowable for the reasons listed above.

In regards to the previous rejection of claims 1-3 under 35 U.S.C. §102(b) as being anticipated by Hewitt the Examiner has found applicant's arguments persuasive. Hewitt discloses an "arbitration control unit therefore assigns a priority to each master based on how close its count value is to zero (applicant's remarks page 11)." Unlike applicant's invention Hewitt does not "disclose or suggest comparing a measured time interval to each of a predetermined value and a second predetermined value and does not disclose or suggest assigning a higher priority based on a result of the comparing (page 11 of applicant's remarks)." Insofar as Hewitt fails to teach each and every limitation of independent claims 1 and 3, the rejection of claims 1 and 3 have been withdrawn. Claims 2 and 6-10 depend from independent claims 1 and 3 and are therefore allowable for the reasons listed above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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- 6. In addition to the prior art previously made of record, the Examiner has located two U.S. Patent Documents relevant to applicant's invention:
 - Chowdhuri discloses an arbitration circuit (Fig. 4, 400) with a plurality of request shaper circuits 404. Like applicant's invention the shaper circuit measures a time interval with counter 502 (Fig. 5) and compares the value (with equality comparator 504) to a predetermined value DP(n). However, unlike applicant's invention the request shaper circuit fails to compare the interval to a second predetermined value and thus does not assign a higher priority based on the comparison to a second predetermined value.
 - Chae discloses an arbitration system using a short-term reference time unit and a long-term reference unit (similar to a first predetermined value and a second predetermined value) to determine the priority of requestors. Chae however fails to qualify as prior art due to applicant's perfected claim to foreign priority.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan M. Stiglic whose telephone number is 571.272.3641. The examiner can normally be reached on Monday - Friday (6:00-3:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rehana Perveen can be reached on 571.272.3676. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

PAUL R. MYERS PRIMARY EXAMINER

Paul R. My

RMS